

CardioSoft Diagnostic System Resting ECG application

Clinically connected. Simply smart.

The CardioSoft™ Diagnostic System Resting ECG application transforms your physician office PC into a resting ECG device. The Cardiac Acquisition Module (CAM-14) with the CAM USB A/T interface is easily connected from the patient to your PC's standard USB port. The CAM-14 provides high-quality ECG presentation for accurate cardiac assessment of your patients. Its outstanding digital signal processing reduces artifact for clearer tracings.

- Comprehensive GE Marquette® 12SL™ ECG analysis program including ACI-TIPI, gender-specific criteria, 12SL with Right Ventricular Involvement measurement and serial presentation of ECGs; 12SL is one of the most validated ECG analysis programs in the industry and has been cited in over 150 independent publications
- Multiple configurable report formats are available
- Full disclosure data can be stored in the CardioSoft Diagnostic System database and easily accessed remotely via CS Web; robust editing functions make report generation simple and fast
- Seamless connectivity with other GE resting ECG devices such as MAC® 800, MAC 1200, MAC 1600, MAC 3500, MAC 5500 and with EMR* systems
- DICOM formatted resting ECG report generated by CardioSoft Diagnostic System is automatically exported to PACS workstations, making physician over-read fast and efficient while speeding up patient throughput
- Seamless connectivity to GE MUSE® Cardiology Information System for even more workflow efficiencies
- Multiple networking options are available (consult CardioSoft Diagnostic System Networking product sheet)

* Check EMR vendors' compatibility with your GE representative.



Specifications

Signal processing

ST measurements	ST amplitudes, slope, integral, index, ST/HR slope, ST/HR loops, ST/HR
E, J and post-J point	Manual or computer selected
Signal processing technique	Incremental median updating
Baseline correction	Cubic Spline and/or Finite Residual Filter (FRF) algorithm
QRS detection and analysis	Based on automatic or manual lead selection
ECG output	Real-time ECG/QRS beep/TTL synchronization output
Heart rate	Automatic arrhythmia detection, documentation and annotation
Full disclosure ECG	Beat-to-beat ECG record and event review
Reanalysis	Post-test medians measurements from E, J, post-J point selections
ECG program	(Optional) 12SL adult and pediatric ECG analysis program
Additional ECG function	Vectorcardiography

Technical specifications

Communications/storage

MUSE systems compatible via diskette; network (optional)	
MUSE Web compatible for retrieval view and printing of MUSE system data	
CS Web compatible for report viewing	
PDF export of final reports (auto export and custom file name)	
Microsoft® Word export of configured reports	
XML or Excel® export of specified data	
EMR connectivity	EMR Gateway

Data acquisition (via CAM-14)

Technology	Active, "Type BF" floating isolated powered 14-channel acquisition module with built-in lead-fail detection and lead prep impedance measurement
Sampling rate	Over-sampling @ 4000 Hz, 12 leads
Dynamic range	320 mV, ± 10 mV signal superimposed on ± 150 mV DC offset
Resolution	4.88 μ V/LSB @ 500 Hz
Noise	<15 μ V peak-to-peak noise over 0.01 to 150 Hz (-3dB) bandwidth
ECG analysis frequency	500 Hz
High pass filter	0.01 (or 0.05 Hz, special use) with DC offset control
Low pass filter	20, 40, 100, 150 Hz (selectable)
Line filter	50.0 or 60.0 Hz notch filter (selectable)
Baseline correction	Cubic Spline algorithm
Artifact/baseline correction	FRF and Cubic Spline algorithms
Common mode rejection	Measured: 100dB, calculated: >140 dB (123 dB with AC filter disabled)
Impedance	>10 M Ohms @ 10 Hz, defibrillator protected
Patient leakage	<10 μ A
Pace detect	Orthogonal LA, LL and V6; 750 μ V @ 50 μ s

Display type	User provided
Monitored leads	3, 6, 12 or 15
Displayed leads	Number on screen 3, 6, 12 or 15
Display format	3 rhythm, 3 rhythm + medians, 3 rhythm + trends, 6 rhythm, 4 x 2.5 + 1 rhythm, 2 x 6
Display speeds	25, 50 mm/s
Display sensitivity/gain	2.5, 5, 10, 20 mm/mV

Minimum computer requirements – CardioSoft Diagnostic System workstations	
Microprocessor	Minimum: Pentium 4 \geq 1.6 GHz (Windows® XP); 2 GHz (Windows Vista)
RAM	512 MB (Windows XP); 1 GB (Windows Vista)
Hard drive	4 GB (depending on number of tests to save); 50 MB of free memory
SW installation	CD-ROM drive
Pointer	Mouse
Graphics adapter	Minimum: SVGA 1024 x 768 Recommended: SXGA 1280 x 1024
Interfaces	Minimum: 2 USB ports, CD-RW, SD card, network interface card (recommended)
Operating system	Windows XP/Pro SP 2/3; Windows Vista Home Premium/Business SP 1; Windows Server 2000/2003
Printer	PLC 6 driver compatible; US letter or A4 paper; USB or parallel interface GE Healthcare recommends HP4250 network printers, HP4650 or HP LaserJet® P3005 dn for use with CardioSoft Diagnostic System and networked printing from CASE® systems
Additional software for export functionality	Microsoft® Word and Excel® (optional)
Networking LAN	Wireless: 802.11G (optional) TCP/IP interface
Citrix®	Citrix application software not sold, installed, or supported by GE Healthcare

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About GE Healthcare

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services helps our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our “healthymagination” vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality and efficiency around the world. For more information about GE Healthcare, visit our website at www.gehealthcare.com

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